QCrypt 2021 business meeting

Agenda

- 2021 local committee report [Chris & Serge] (10 mins)
- 2021 program committee report [Carl & Tobias] (10 mins)
- 2022 presentation [2022 LC] (10 mins)
- 2023 solicitation of proposals [chair] (1 min)
- Questions/discussions [chair] (5-10 mins)
- ***2021 Best Student Paper Prize: Carl & Tobias (10 mins)***

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Christoph Marquardt
Max Planck Institute for the Science of Light

SC chair

Gorjan Alagic
University of Maryland

SC co-chair

Akihisa Tomita
Hokkaido University

SC member

Serge Fehr
CWI Cryptology group, Leiden University

SC member

Feihu Xu
University of Science and Technology of China

SC member

Stacey Jeffery
CWI

SC member

Hugo Zbinden
University of Geneva

SC member

Marco Lucamarini
University of York

SC member

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QCrypt 2021 business meeting

Hosting QCrypt 2023!

If you are interested, please send a letter of intent to
qcrypt-steer@googlegroups.com

by Nov. 1, 2021, with the following information:

1. Name and affiliation of main organizer
2. Possibilities of conference dates (preferably in late August 2023)
3. Location and size of intended conference venue
4. Contingency for fully or partially virtual event

The steering committee will ask the top contenders to work out a full proposal.

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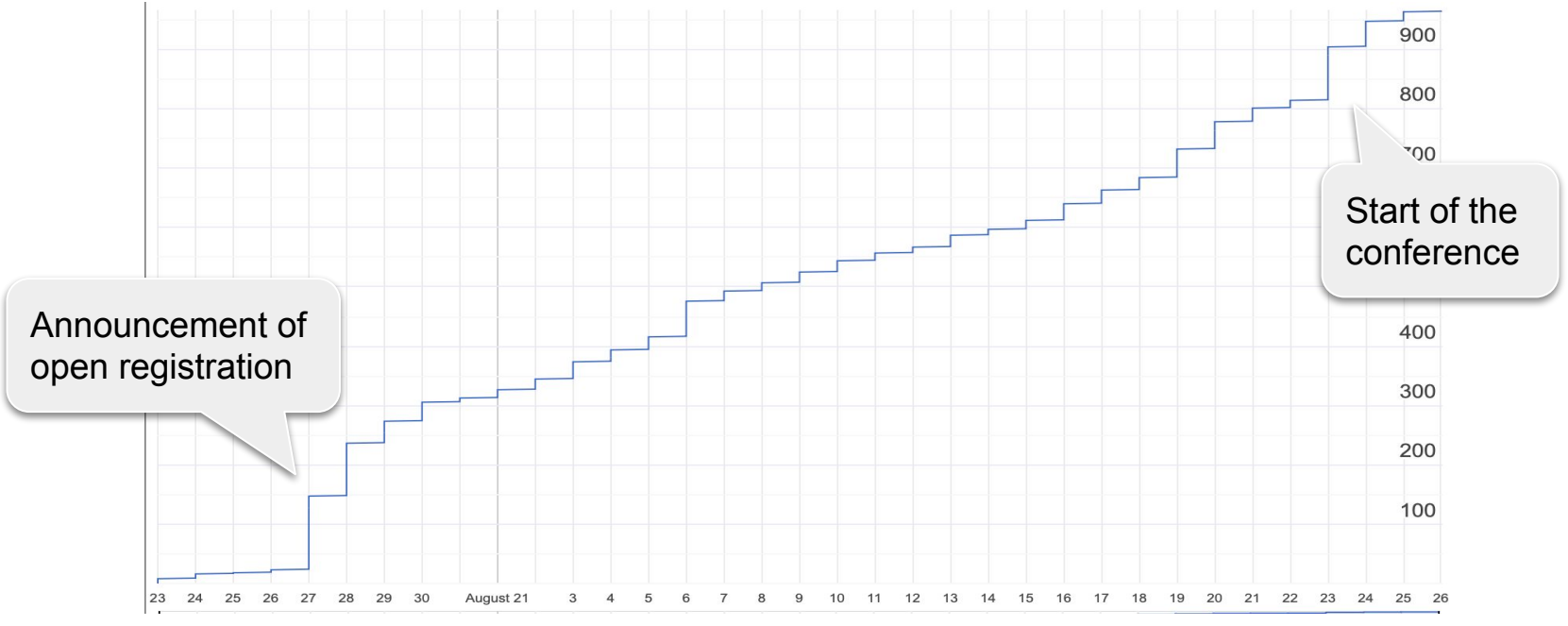
11th International Conference on Quantum Cryptography

online conference

23-27 August 2021

Registrations

Number of registrations: ~1000



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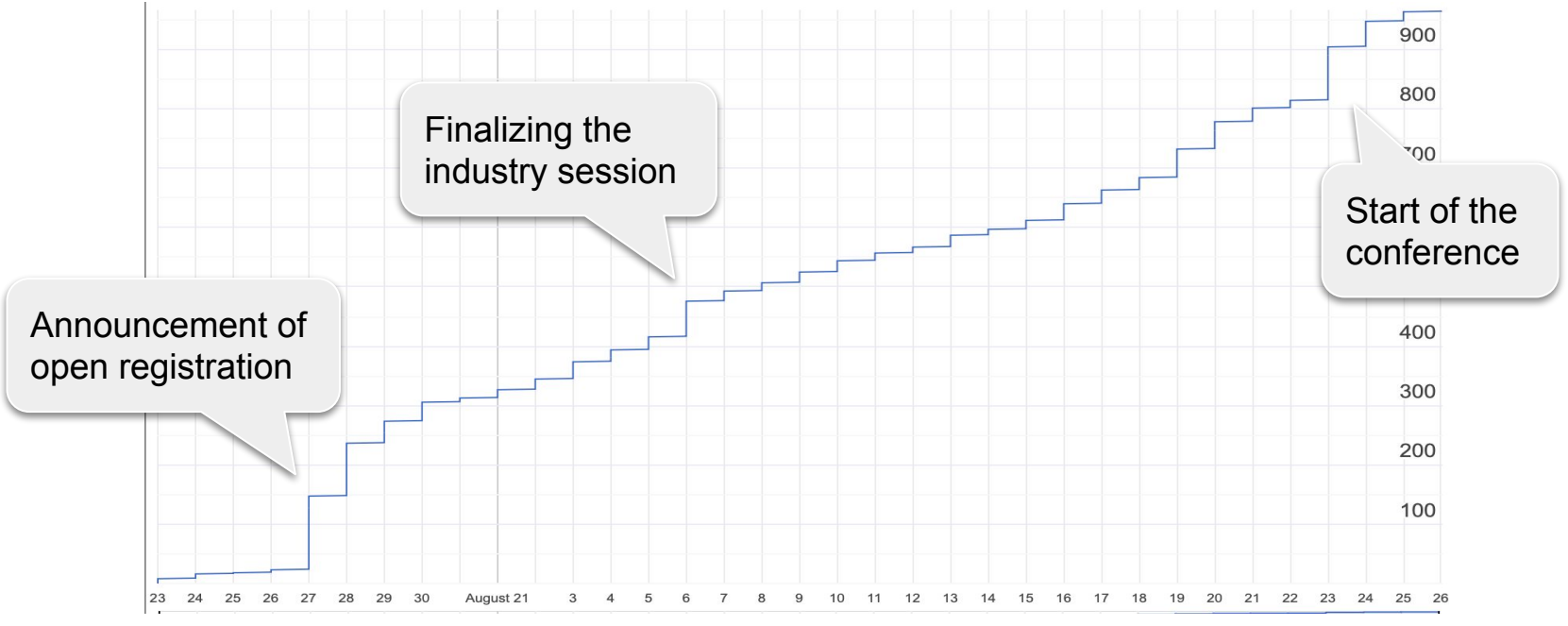
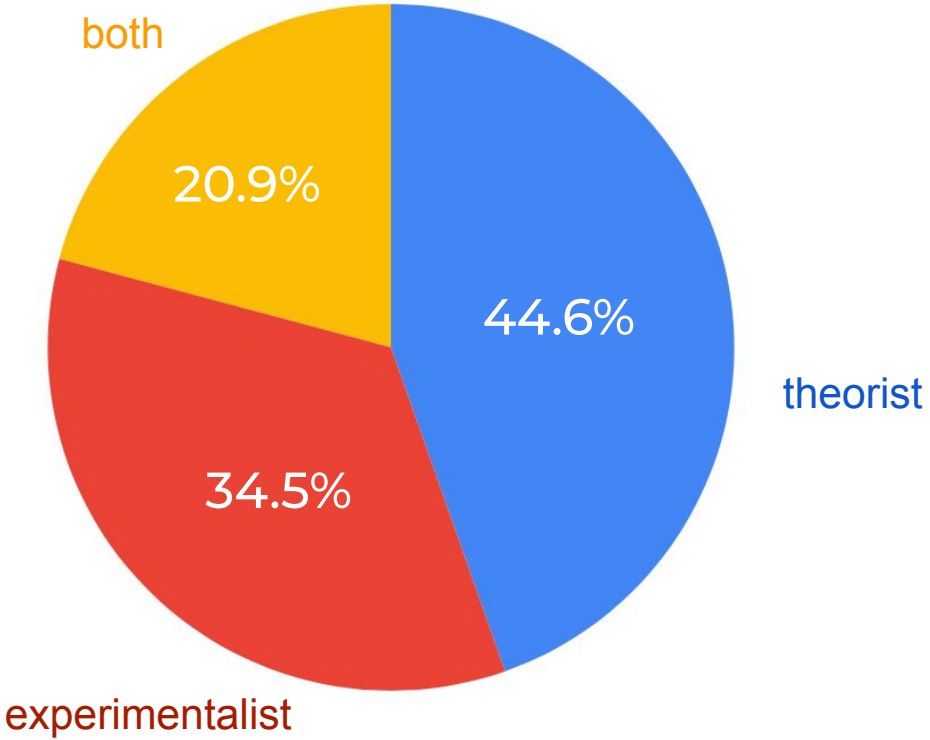


You consider yourself a ...



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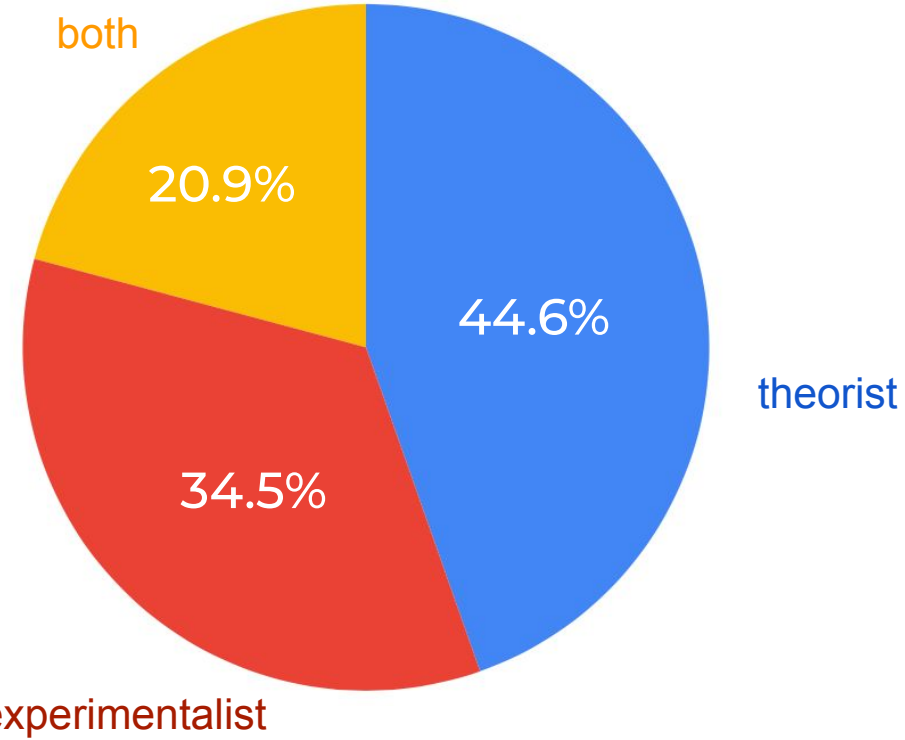
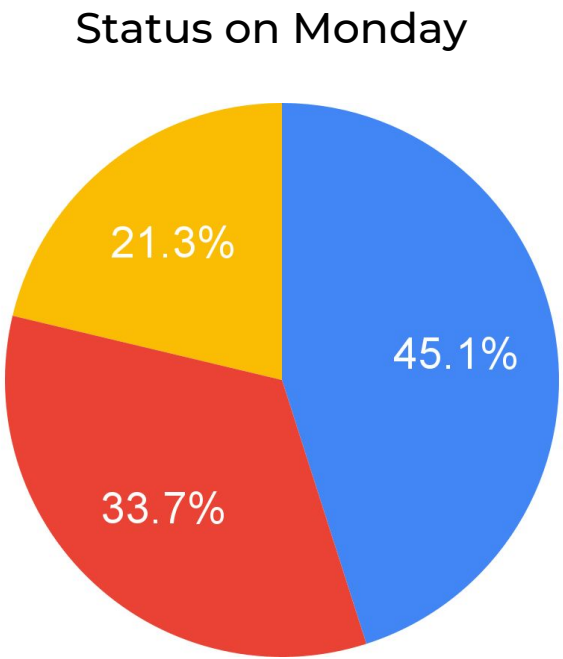
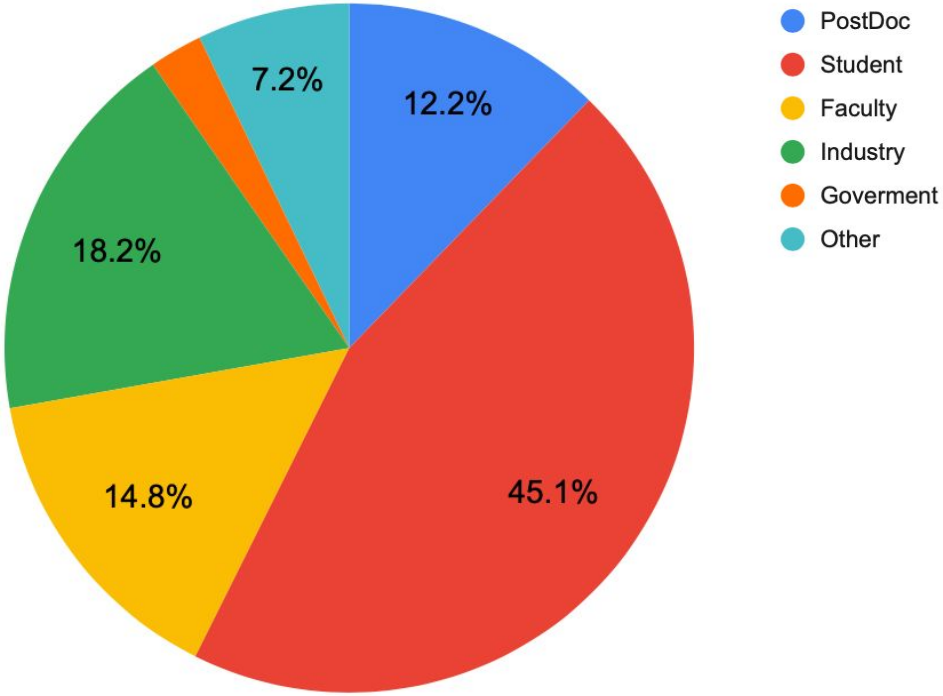
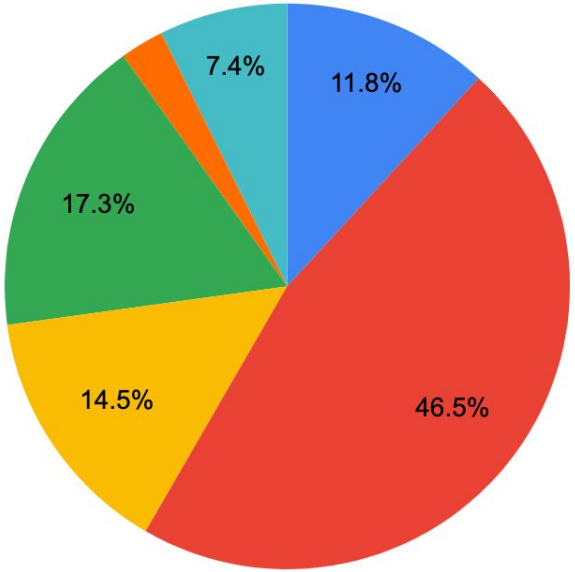




Current Position



Status on Monday



Finances, 2020 and 2021

QCRYPT 2021

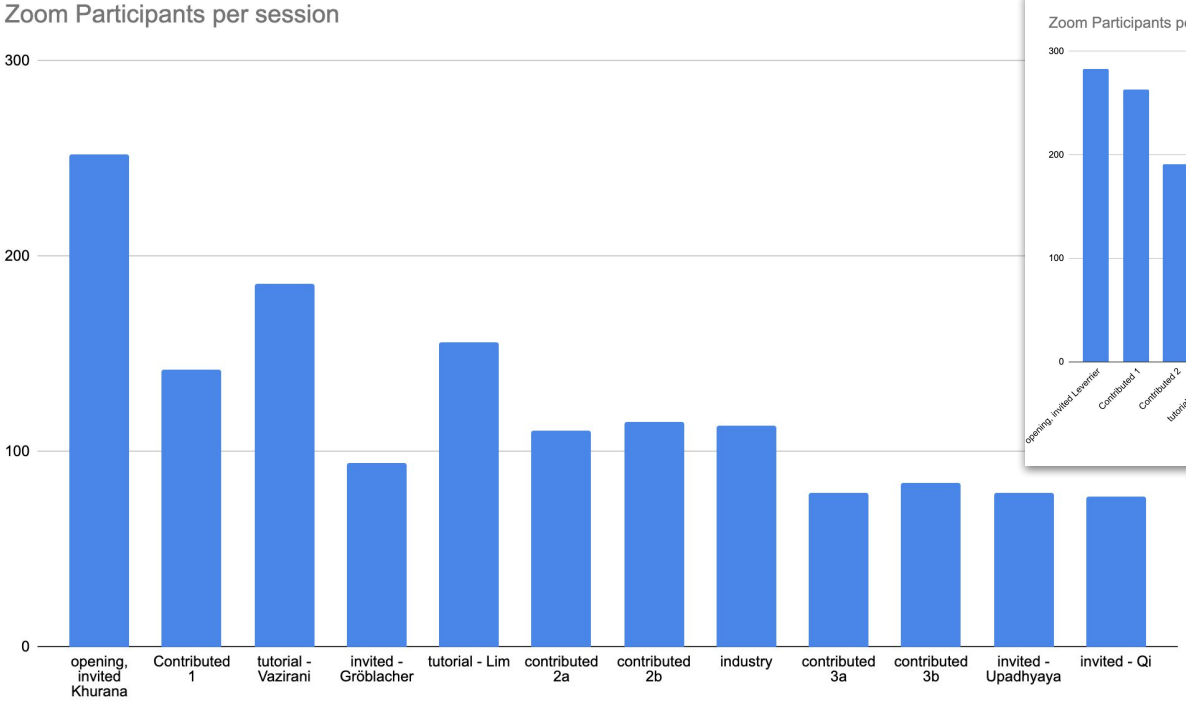
Income:

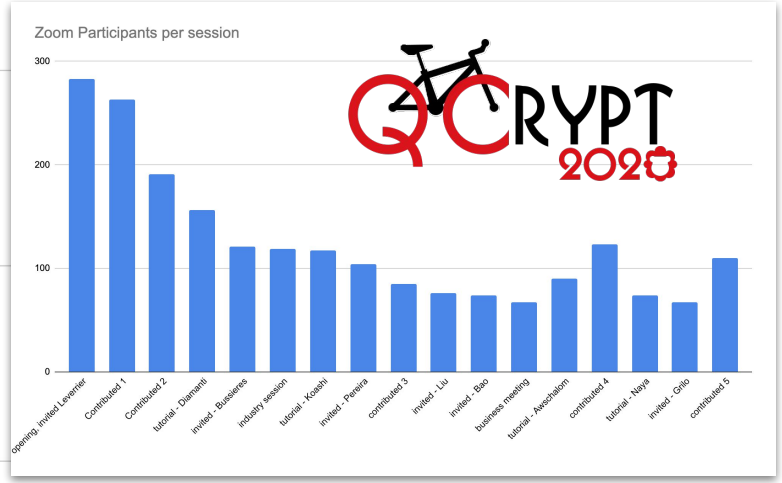
- Sponsors: circa 50k EUR, mix of 2020 and 2021
- Surplus QCrypt 2019: 30k EUR

Expenses:

- UvA congress office: combined with last year
- Remo.co (2020): 850 EUR
- Meetanyway.com (2021): ~25k EUR

Zoom participants per session





Zoom attendee reports

For every session of the webinar, zoom records

- First name
- Last name
- Email
- Registration Time
- Join Time
- Leave Time
- Time in Session
- Country/Region Name

Connecting from China

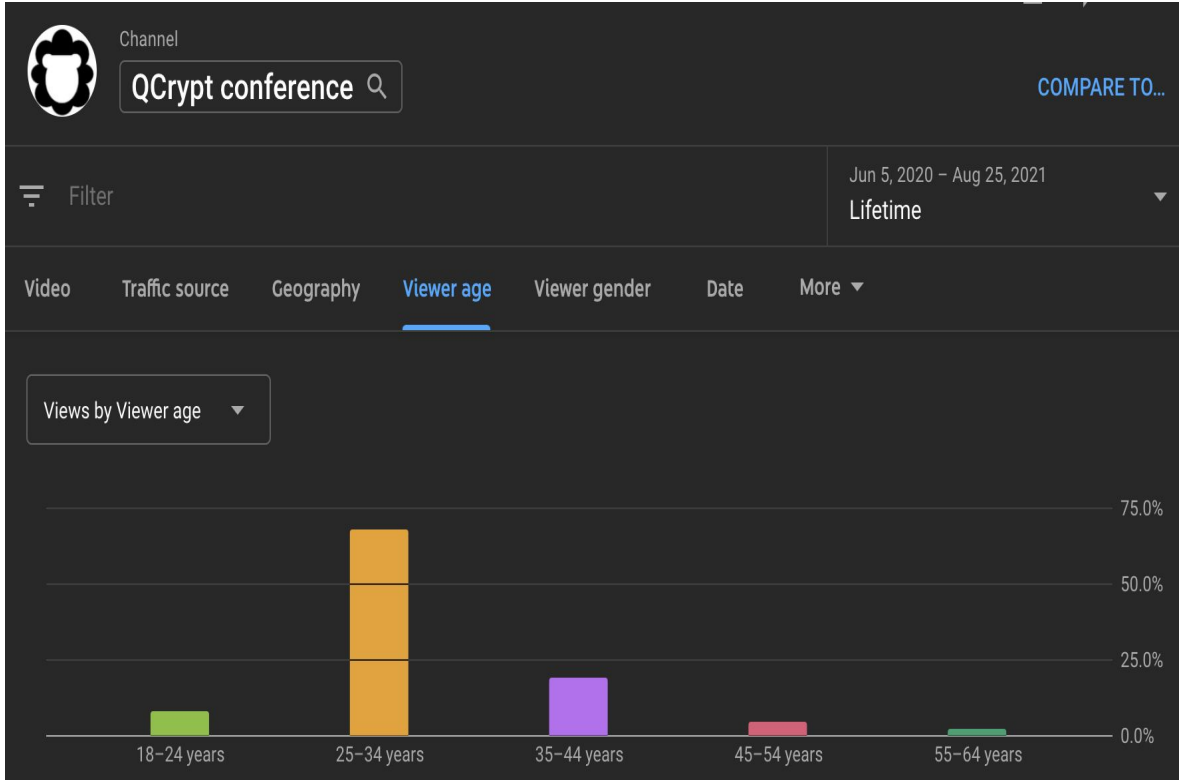
Difficult to access:

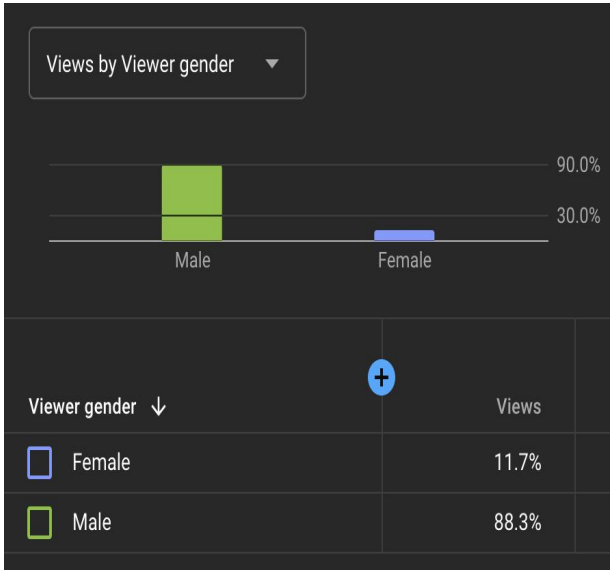
- YouTube
- GoogleForms
- Meetanyway.com

Talks, posters and slides can be downloaded from:

- SurfDrive: https://surfdrive.surf.nl/files/index.php/s/GVXUIIThzcWkd9W

YouTube stats





https://2021.qcrypt.net

- JAM stack: JavaScript, API, Markup
- Hugo: static-website generator
- Netlify: Serverless hosting on open-source plan
- templates from the Kubernetes Community
- https://github.com/QCrypt/website-2021

- Old QCrypt websites: https://qcrypt.github.io/

Thanks to the Team

QCRYPT 2021

Caitlin Boonstra
ILLC, University of Amsterdam
registration updates

Jelle Don
CWI Cryptology Group
support

Yfke Dulek
CWI, QuSoft
support / website

Alex Grilo
CNRS/Sorbonne Université
social media

Melanie Haije
University of Amsterdam
Congress Office

Esteban Landerreche
design

Mehrdad Tahmasbi
CWI, QuSoft
support

Peter van Ormondt
ILLC, University of Amsterdam
registration form

Wessel van Woerden
CWI Cryptology Group
support

Thanks to Serge

CWI
Cryptology Group

&

Leiden University

University of Amsterdam
ILLC

&

QuSoft

Thanks to Serge … and Chris

CWI
Cryptology Group

&

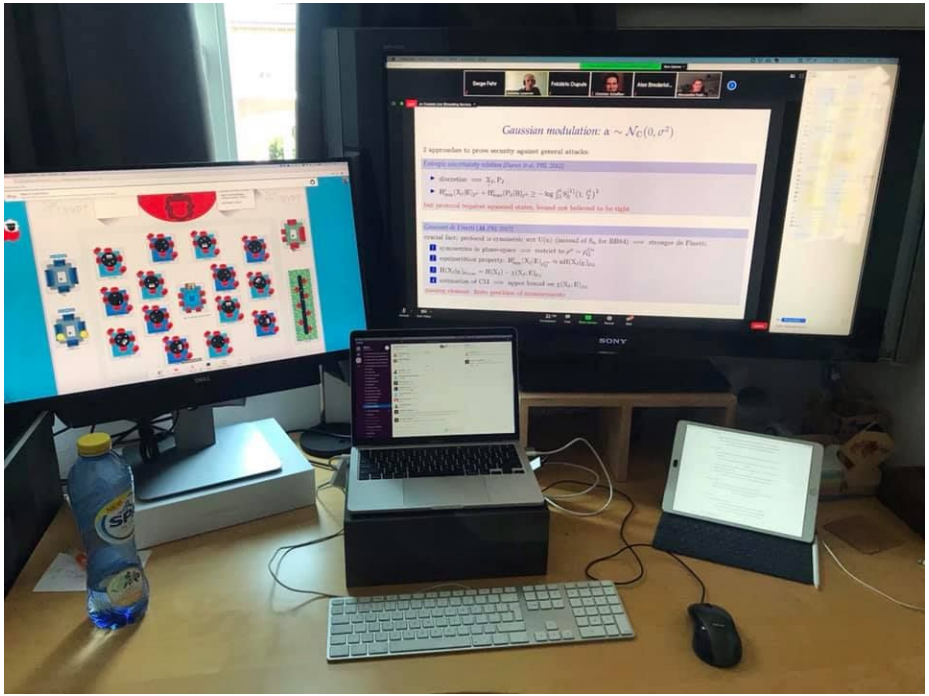
Leiden University

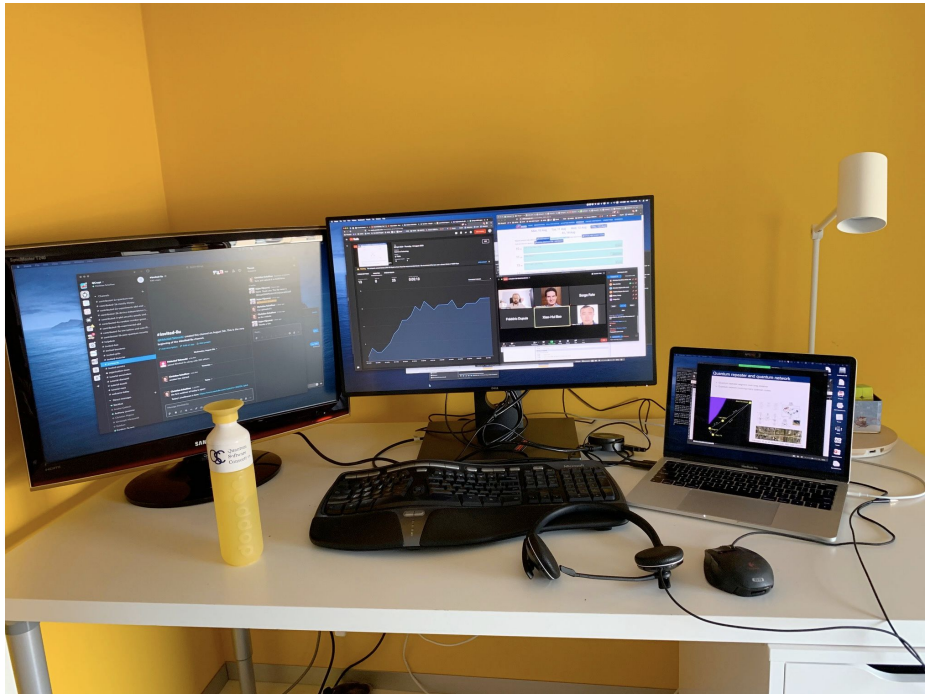
University of Amsterdam
ILLC

&

QuSoft

Home office impressions





QCrypt 2021 central command

Report from the Program Committee

Carl A. Miller (QuICS, NIST), chair
Tobias Gehring (DTU), co-chair

QCRYPT 2021

Early Decisions

- Extra-large committee.
- Software: HotCRP instead of EasyChair. (*https://qcrypt2021.quics.umd.edu*)
- Call For Papers said: “Research on classical post-quantum cryptography is considered to be within scope if it makes innovative use of quantum information concepts.”

Program Committee Members

Andrea Coladangelo (University of California, Berkeley)
Andreas Hulsing (Eindhoven University of Technology)
Andreas Poppe (Austrian Institute of Technology)
Anne Broadbent (University of Ottawa)
Antonio Acin (ICFO)
Carl Miller (NIST and University of Maryland)
Charles Ci-Wen Lim (National University of Singapore)
Daniel J. Gauthier (Ohio State University)
Davide Bacco (Technical University of Denmark)
Elham Kashefi (University of Edinburgh and CNRS LIP6 Sorbonne Universite)
Erika Andersson (Heriot-Watt University)
Florian Speelman (QuSoft and University of Amsterdam)
George Kanellos (University of Bristol)
Giuseppe Vallone (University of Padova)
Ivo Pietro Degiovanni (INRIM Istituto Nazionale di Ricerca Metrologica)
Jamie Sikora (Virginia Tech)
Marco Tomamichel (National University of Singapore)
Nino Walenta (Fraunhofer Heinrich Hertz Institute Berlin)
Paolo Villoresi (University of Padova)
Roger Colbeck (University of York)
Romain Alleaume (Telecom Paris)
Rotem Arnon-Friedman (Weizmann Institute of Science)
Rupesh Kumar (University of York)
Sean Hallgren (Penn State University)
Thomas Jennewein (University of Waterloo)
Tobias Gehring (Technical University of Denmark)
Veronica Fernandez (Spanish National Research Council (CSIC))
Virginia D'Auria (Institut de Physique de Nice)
Vladyslav Usenko (Palacky University, Olomouc)
Xiongfeng Ma (Tsinghua University)
Yanbao Zhang (NTT Basic Research Lab)
Yfke Dulek (QuSoft and CWI Amsterdam)
Yuan Cao (University of Science and Technology of China)
Yury Kurochkin (Russian Quantum Center)
Zhiliang Yuan (Beijing Academy of Quant. Info. Sci.)
Zvika Brakerski (Weizmann Institute of Science)

The Process

- We received 137 talk submissions (versus ~100 in a typical year). 80 were marked as “Theory” and 44 as “Experiment.” (Some were both or neither.)

- After that we had:
    1. Review period (4 weeks)
    2. Discussion period (2 weeks)
    3. Vote (1 week)

  (About two-thirds of acceptances were at stage 2; the rest were at stage 3.)

The Process

- We accepted 29 talks, including 2 merges. Acceptance rate 23%.
  - 15 experimental talks (loosely defined)
  - 14 theoretical talks

- We accepted 141 posters. Acceptance rate 100%.

- Student Paper Prize:
  - The PC selected 5 finalists.
  - The SC and the PC chairs then chose 2 winners.

(Coming up …)

Thanks to our subreviewers!

Alex Bredariol Grilo
Alexander Duplinsky
Alexander Poremba
Anand Natarajan
André Chailloux
Andreas Winter
Andrey Tayduganov
Andru Gheorghiu
Anran Jin
Anthony Leverrier
Anurag Anshu
Arthur Mehta
Bo Li
Christian Majenz
Dakshita Khurana
David Elkouss
Dmitry Kronberg
Elie Wolfe
Eric Culf
Ernest Tan
Evgeny Kiktenko
Fang Song
Felix Leditzky
Fermi Ma
Frédéric Dupuis
Frederic Grosshans
Gabriel Molina-Terriza
Gabriel Senno
George Nikolopoulos
Giacomo De Palma
Giulio Malavolta
Gláucia Murta
Guoding Liu
Harold Ollivier
Honghao Fu
James Bartusek
Jana Sotáková
Janis Nötzel
Jian-Yu Guan
Josep Lumbreras
Joseph Renes
Kai-Min Chung
Kaushik Chakraborty
Kiyoshi Tamaki
Koon Tong Goh
Marc-Olivier Renou
Mario Berta
Masahito Hayashi
Máté Farkas
Matthew McKague
Matty Hoban
Navneeth Ramakrishnan
Nir Bitansky
Obada Alia
Omri Shmueli
Pei Zeng
Peter Brown
Peter Yuen
Prabhanjan Ananth
Qipeng Liu
Quoc Huy Vu
Rabib Islam
Renato Renner
Roberto Rubboli
Rui Wang
Sébastien Lord
Srijita Kundu
Stacey Jeffery
Stefan Baeuml
Supartha Podder
Theodoros Kapourniotis
Thomas Vidick
Tom Van Himbeeck
Vadim Rodimin
Valerio Scarani
Víctor Zapatero
Xingjian Zhang
Yingkai Ouyang
Yizhi Huang
Yu-Huai Li
Zhenhuan Liu

QCrypt 2022 (8/29-9/2)

Bo-Yin Yang / Kai-Min Chung

at Academia Sinica, Taipei, Taiwan

Taiwan is a Nice Place

Tall mountains, green fields, hot springs,
lovely beaches. Great food, nice people.
Not much COVID-19. (Oh yes, Taiwan Beer!)

Pix: 101, Alishan, Taroko Gorge, Ching-Sui cliffs

QCrypt 2021 central command

Venue: our HUmanities and Social Sciences Building

Getting into Taiwan ... and staying in Taipei

> Visa-free entry 15+days available (if without COVID-19) to many countries:
    Academia Sinica handles invitations and visas well for those remaining;
    Visa assistance details as the time gets closer -- we are experienced;

> Flights are numerous and convenient and TPE easily accessible by train

> Negotiating for reserved rooms in Academia Sinica Academic Activities Center and nearby hotels:
    Shuttles from/to off-campus hotels in the morning/evening;
    Average price is likely ~ US$100 (including breakfast and wifi!);

> You are free to try AirBnB etc. they have many rooms in Taipei

> Mass Transport cheap and plentiful

QCrypt 2021 central command

When things go wrong -- a Hybrid or Virtual QCrypt

A Virtual Event is today's new Norm

Our venue cost us $0 to cancel

We plan to set up a local meetings server anyway (Jitsi/BigBlueButton)

We won't have much income but a lot of expenses are invited speakers and that goes away as well

A Hybrid Event is really a virtual event with some local attendees

HSSB (Our Venue) is well decked out in terms of sound+video equipment and connectivity

Main Conference Room at ¼ capacity (social distancing) holds 100

We plan constant monitoring of the virtual meeting room for questions

Looking forward to welcoming you in Taiwan for

Qcrypt 2022

Hope to see you all then and there!
Bo-Yin & Kai-Min

Student Paper Prizes

Carl A. Miller (QuICS, NIST), chair
Tobias Gehring (DTU), co-chair

QCRYPT 2021

QCRYPT 2021

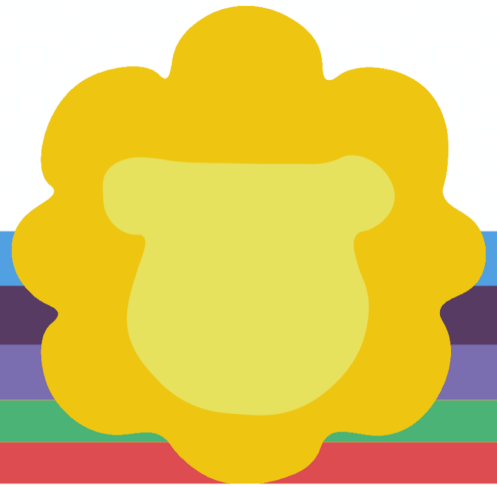
Best Student Paper

High-rate quantum key distribution with silicon photonics

Likang Zhang

Co-authors Wei Li; Hao Tan, Yan-Lin Tang, Kejin Wei, Sheng-Kai Liao, Cheng-Zhi Peng, Feihu Xu & Jian-Wei Pan

Issued By
Christoph Marquardt
Steering Committee Chair



Issued By
Carl Miller
Program Committee Chair

Looking forward to welcoming you in Taiwan for

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Hope to see you all then and there!
Bo-Yin & Kai-Min

QCRYPT 2021

Best Student Paper

Device-independent protocols from computational assumptions

Tony Metger

Co-authors Yfke Dulek, Andrea Coladangelo, Rotem Arnon-Friedman & Thomas Vidick

Issued By
Christoph Marquardt
Steering Committee Chair

Issued By
Carl Miller
Program Committee Chair

Finalists

#106: Finite-size DIQKD with noisy preprocessing and random key measurements

Ernest Y.-Z. Tan, Xavier Valcarce, Pavel Sekatski, Jean-Daniel Bancal, Rene Schwonnek, Renato Renner, Nicolas Sangouard, Charles C.-W. Lim

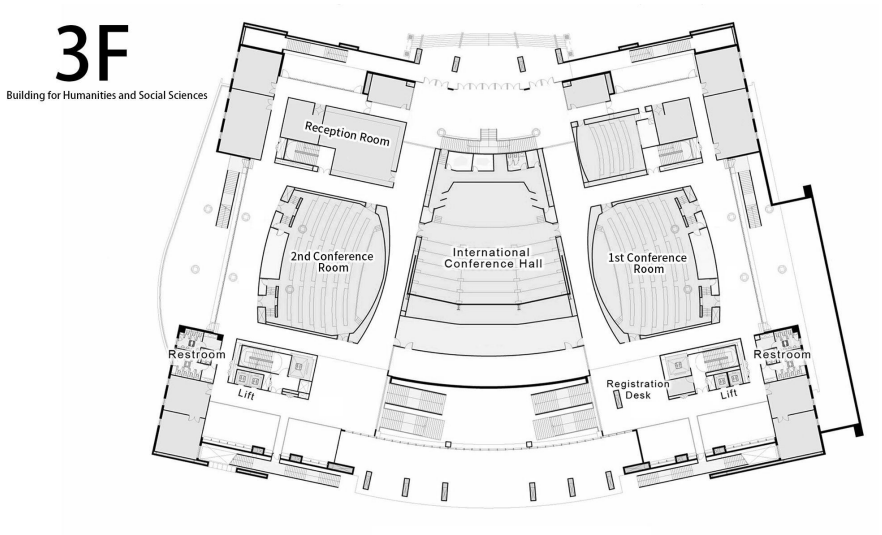
#109: Drone-Based Quantum Key Distribution (QKD)

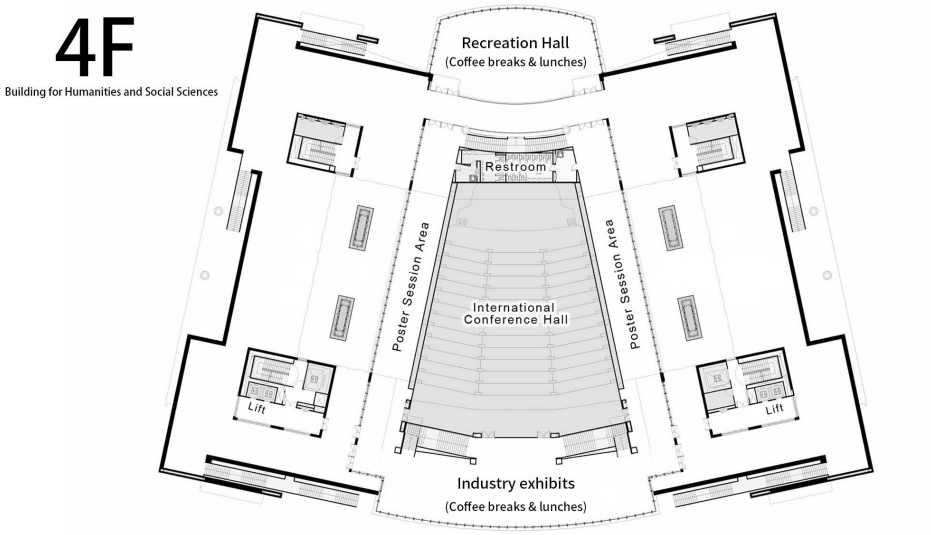
Andrew Conrad, Samantha Isaac, Roderick Cochran, Daniel Sanchez-Rosales, Akash Gutha, Tahereh Rezaei, Brian Wilens, Daniel J. Gauthier, Paul Kwiat

#134: Quantum Private Broadcasting

Anne Broadbent, Carlos E. Gonzalez-Guillen, Christine Schuknecht

Venue: Plenty of space for everything





> Includes a modern conference hall and subsidiary meeting rooms

> Foyers are available for posters

QCrypt 2021 central command

CALL FOR CONTRIBUTIONS

> We expect:
  exciting technical program;

> We need you:
  to work hard;
  produce new exciting results;
  submit them to QCrypt 2022;

> We will also be looking for:
  sponsors;
  industry exhibitors;

> Let us know if you are interested (2022@qcrypt.net)

Looking forward to welcoming you in Taiwan for

Qcrypt 2022

Hope to see you all then and there!
Bo-Yin & Kai-Min

QCrypt 2021 central command